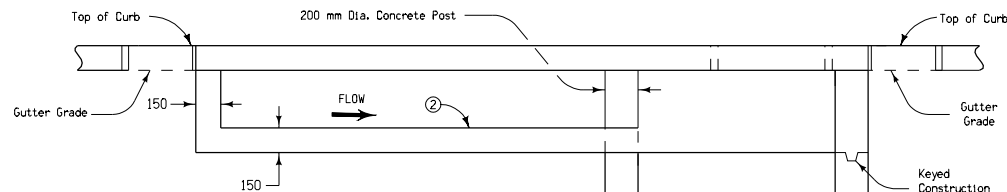
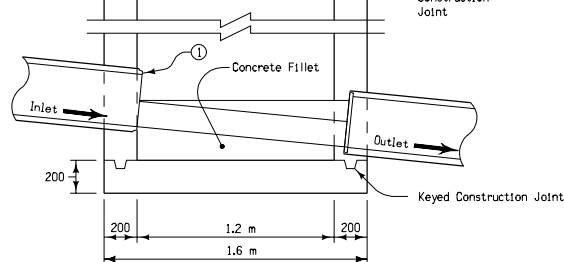


PLAN VIEW
GENERAL LAYOUT

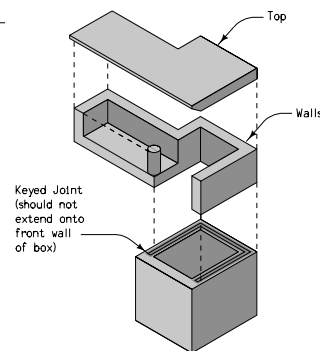


SECTION A-A
(Typical Extension Unit)

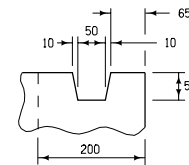
TABLE OF DIMENSIONS					
(LO)	Length of Curb Opening	3.6 m	4.2 m	4.8 m	5.4 m
(EL)	Extension Length	2.4 m	3.0 m	3.6 m	4.2 m
(BL)	Minimum Boxout Length	5.03 m	5.64 m	6.25 m	6.86 m



SECTION B-B
(Typical Intake Well)



ISOMETRIC VIEW
INTAKE WELL, WALLS AND TOP



KEYED CONSTRUCTION
JOINT DETAIL

GENERAL NOTES:

This detail illustrates the construction and installation of an inlet curb intake with an extended opening. Vibration of concrete is required.

Extension unit may be used on either or both sides of intake. Details are similar when installation is on side opposite to that indicated hereon.

All reinforcing bars shall be #4, ASTM A 615M, Grade 400. Lengths required will vary depending on individual installations.

Insert area (boxout) shall be included with the quantities for either concrete pavement or curb and gutter. Special shaping of insert area shall be included with price bid for intake. Concrete for insert area may be for either "Intake" or "Pavement." Finish of insert shall be the same as pavement. Finish for the intake top or any portion exposed shall be as required for structural concrete.

Storm sewer pipe should be installed before intake sidewall construction is started. Sidewalls shall be constructed as indicated with openings for storm sewer smoothly shaped.

Storm sewer pipe locations shown hereon are typical. Refer to detailed project plans for additional data.



A concrete fillet shall be placed in the bottom of the intake approximately as indicated. Special shaping is required to provide a smooth channel through the intake. Top surface of the fillet shall slope at a rate of approximately 12:1 (Horizontal: Vertical) toward the channel.

Joints in pavement adjacent to intake shall be as shown on Standard Road Plans RH-51 and RH-52. Any transverse pavement joint shall stop at edge of insert area (boxout). Joint locations shall be as indicated hereon, except when specifically modified by other plan drawings or as directed by the Engineer.

Bid Item is "Intake, RA-70".

- ① Inlet and outlet pipes to be trimmed flush with inside wall.
- ② Slope same as gutter. Drain to well.
- ③ Other lengths of opening may be constructed by varying the length of the extension and the rebars.
- ④ Includes 100 mm for "EE" joints.

All dimensions given in millimeters unless noted.

METRIC VERSION	M	 Iowa Department of Transportation Highway Division	
	STANDARD ROAD PLAN		RA-70(1)
	REVISION: Require Concrete Fillet.		REVISION NO. 2
	 APPROVED BY DESIGN METHODS ENGINEER		REVISION DATE 04-15-03
	CURB INTAKE WITH EXTENDED OPENING (SHEET 1 OF 3)		